

10085636.022802 200220*9295801

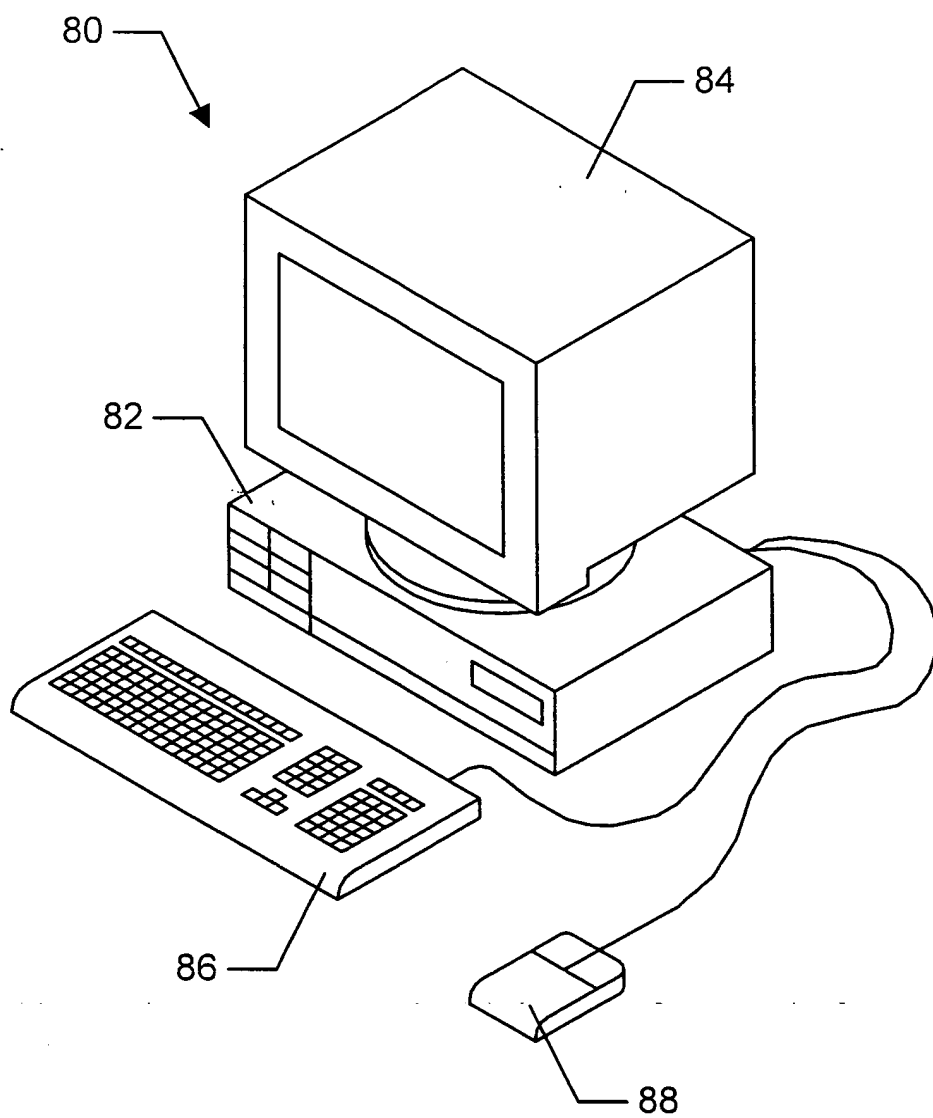


FIG. 1

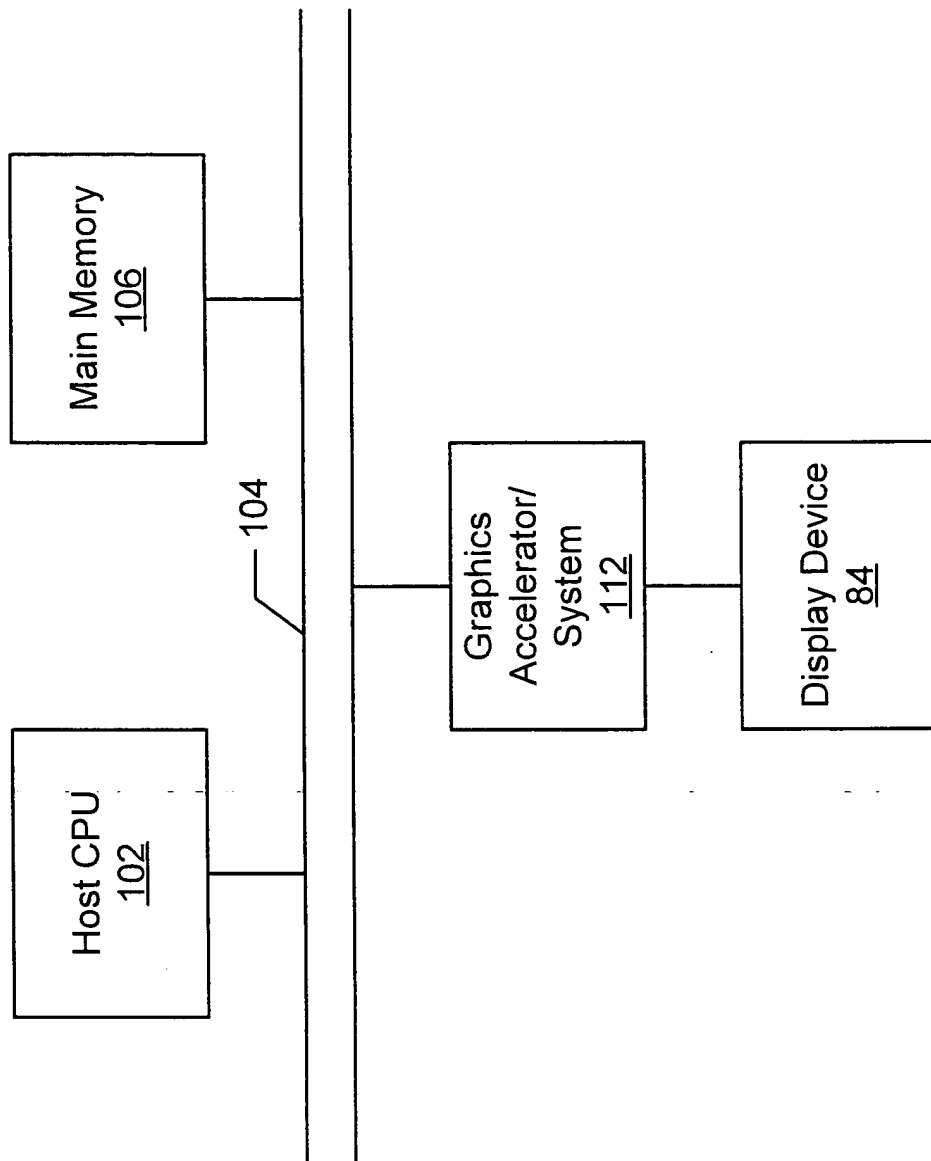


FIG. 2

2082220" 9E95800T

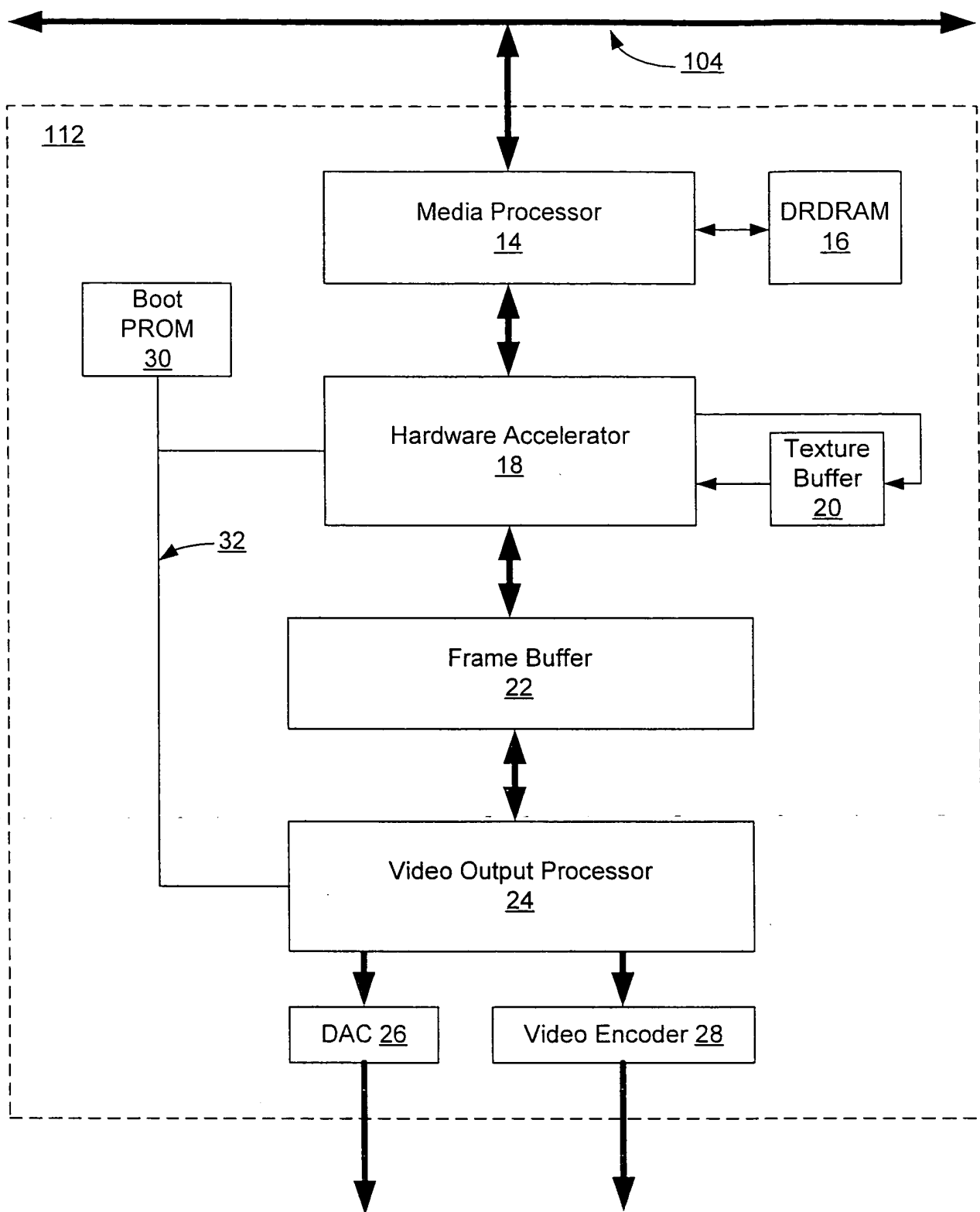


FIG. 3

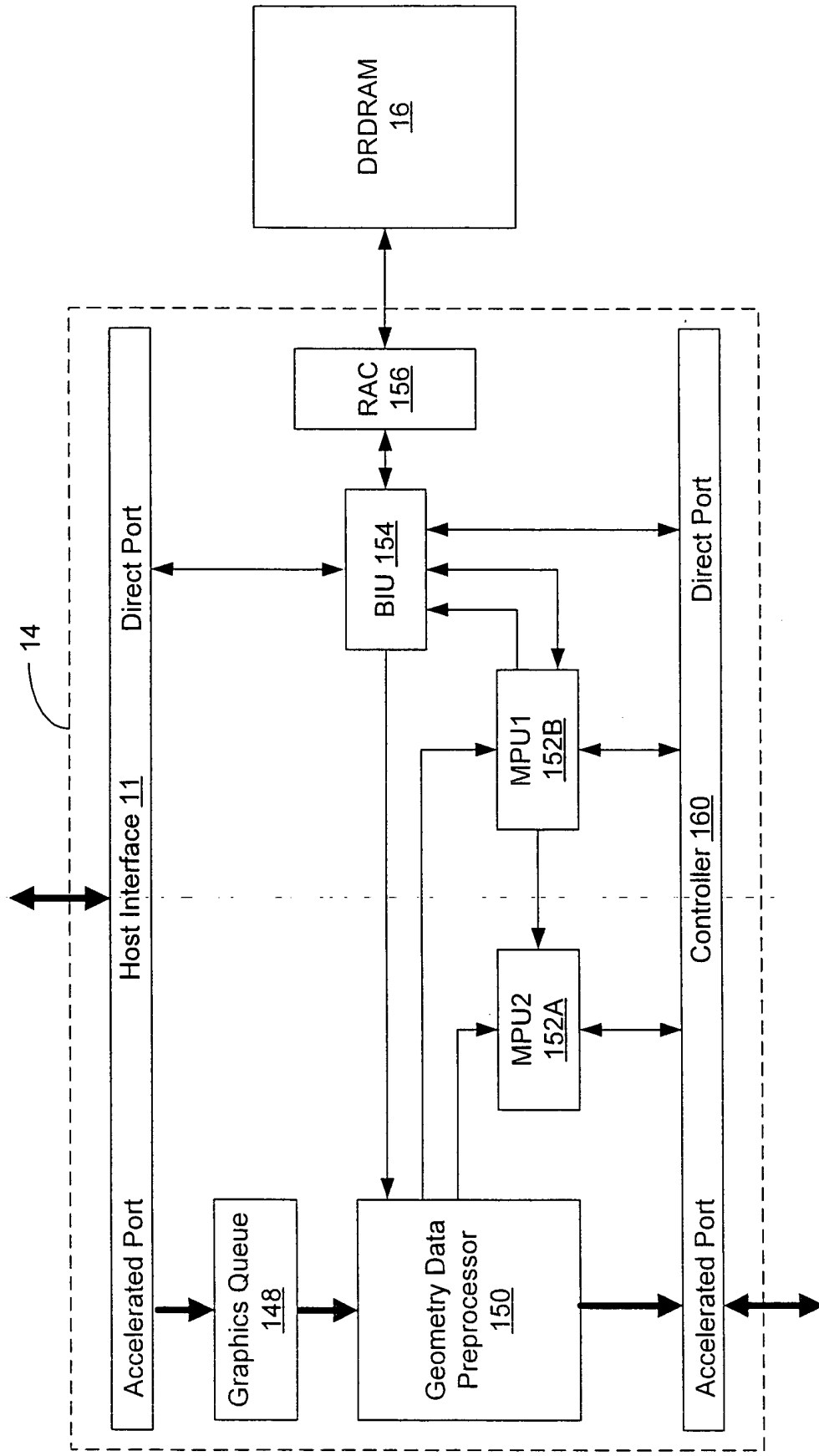


FIG. 4

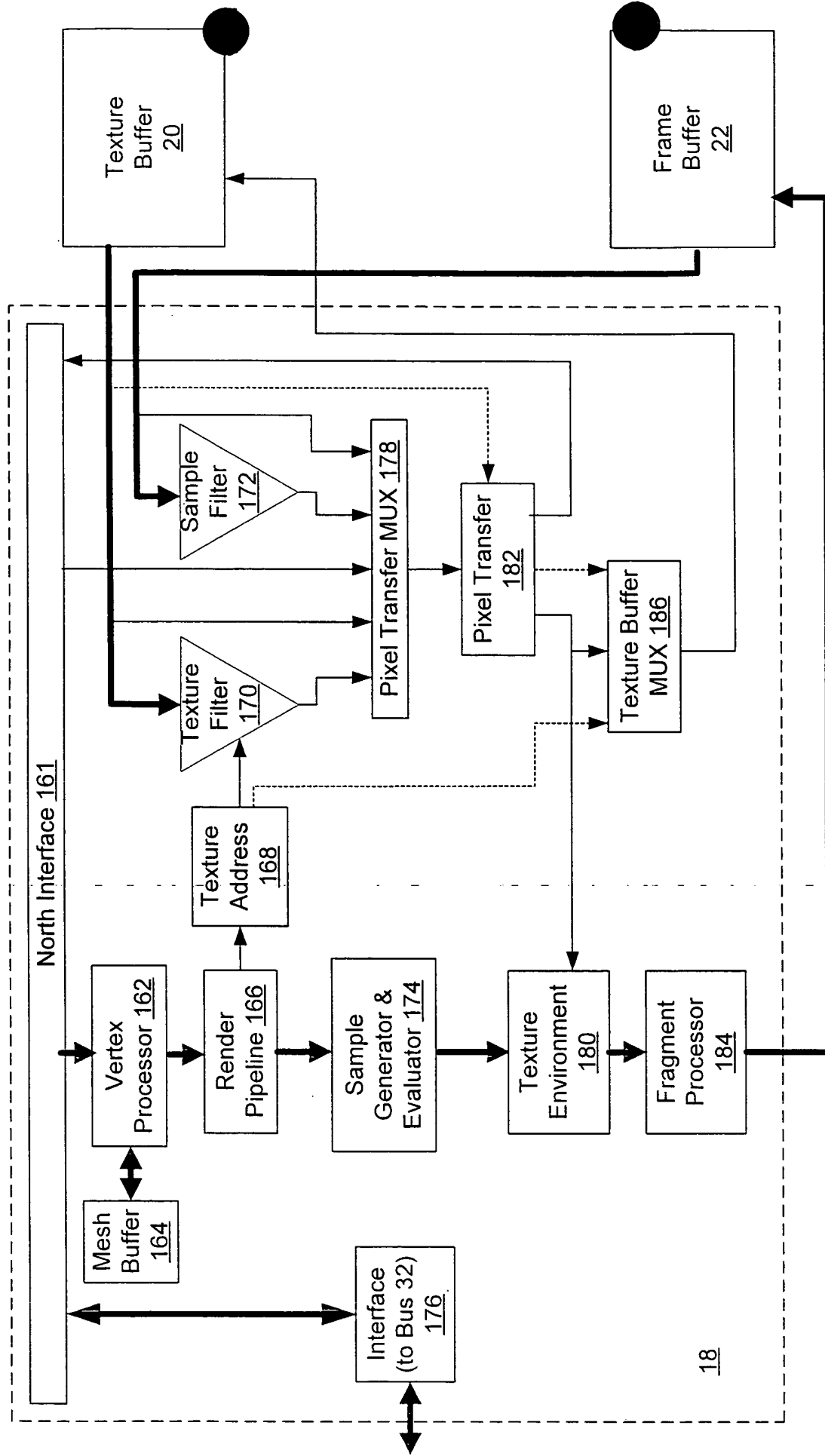


FIG. 5

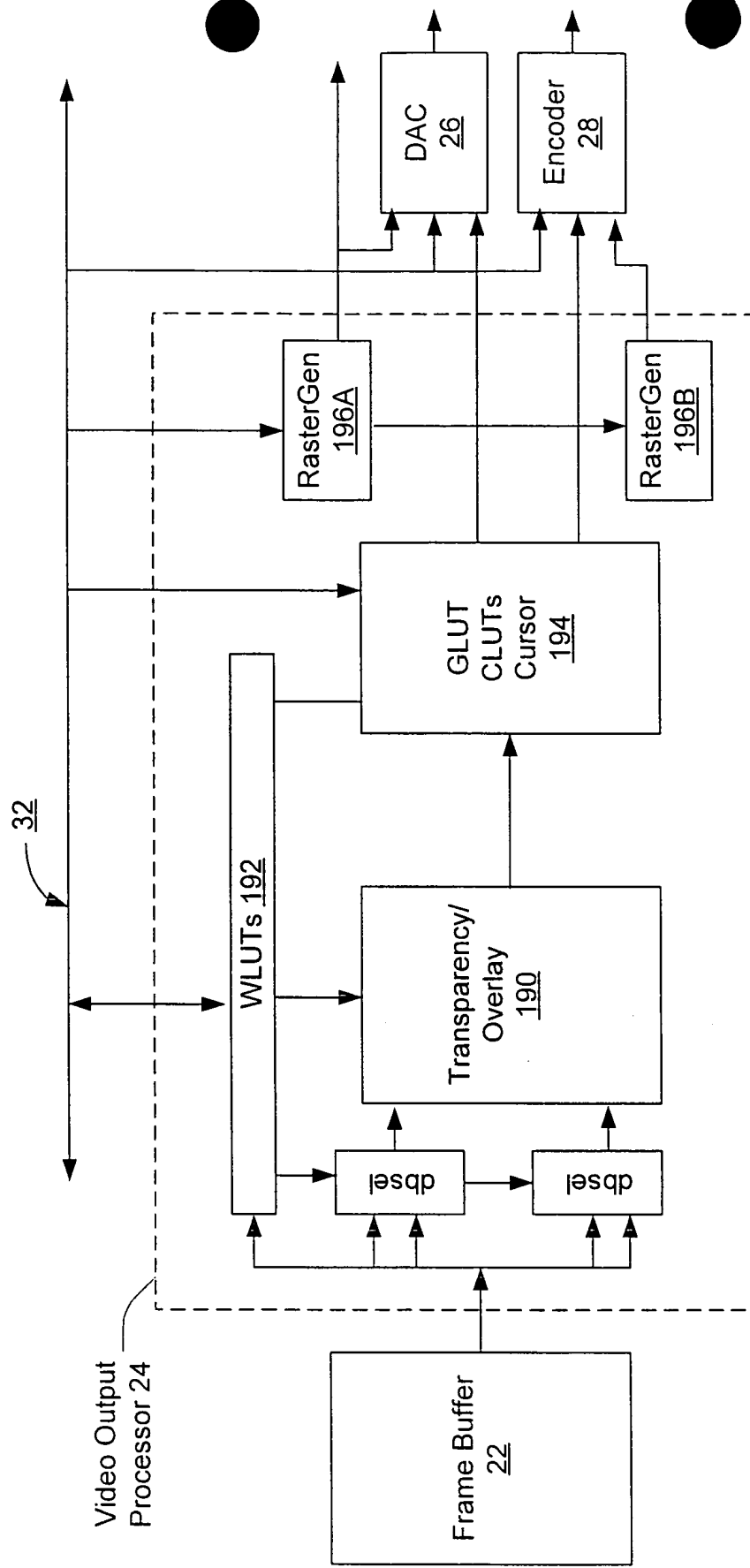


FIG. 6

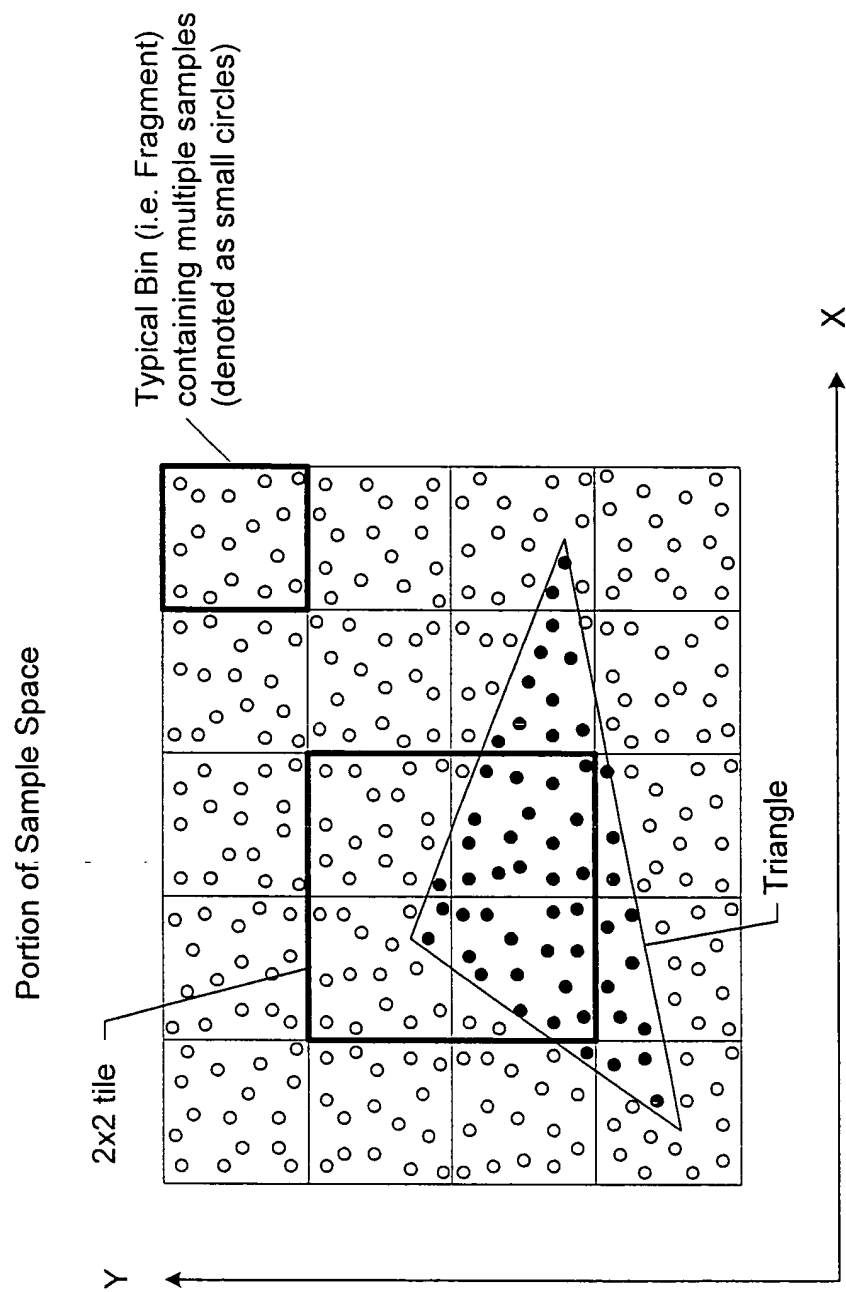


Fig. 7

10085636-022802

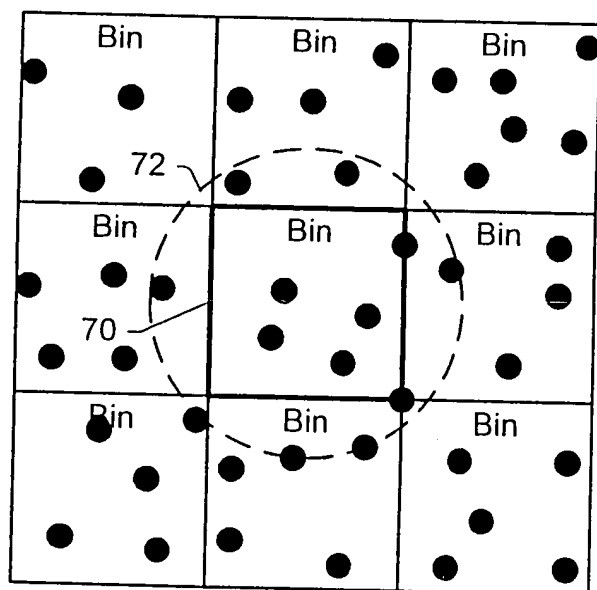


Fig.

8

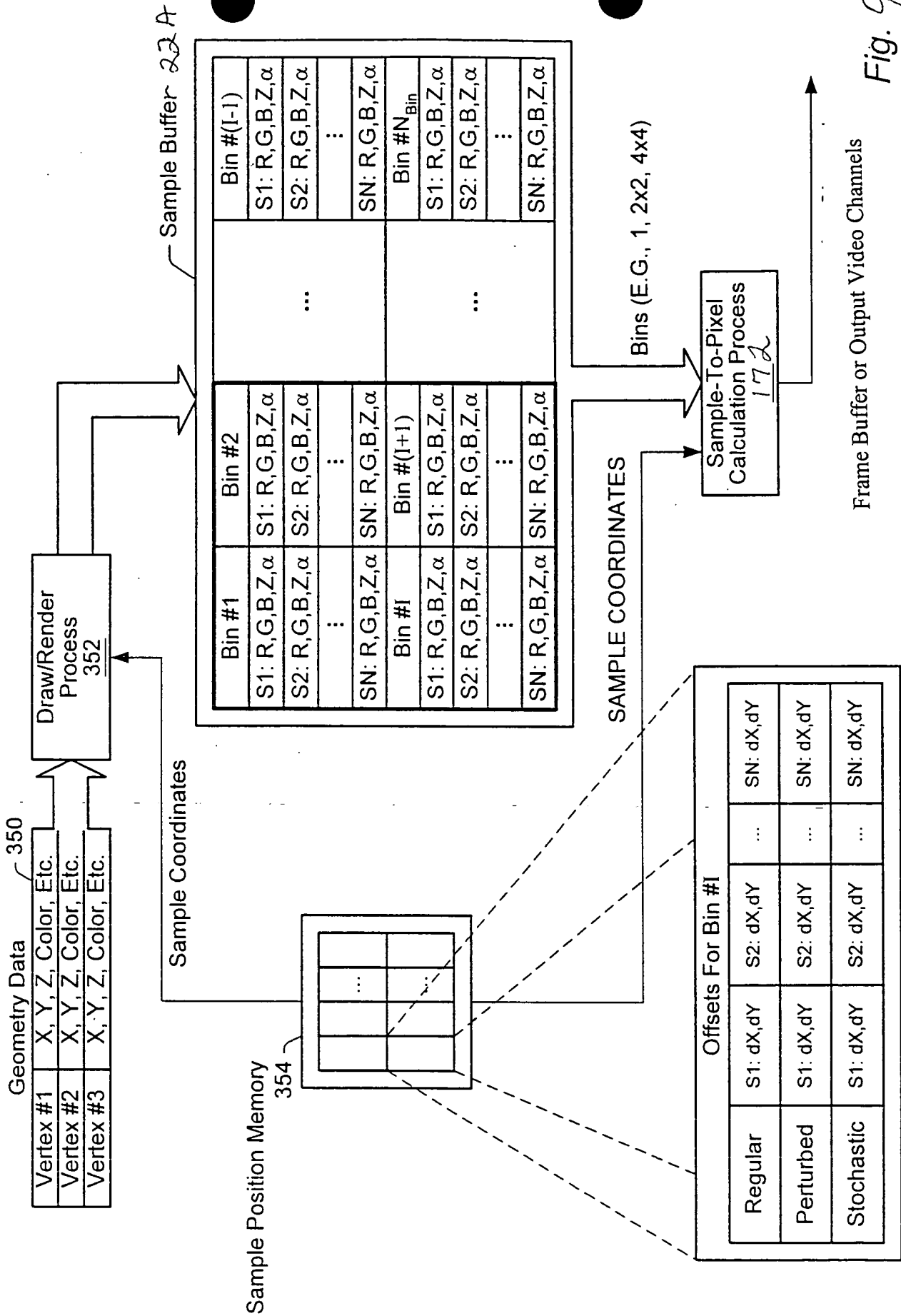


Fig. 9

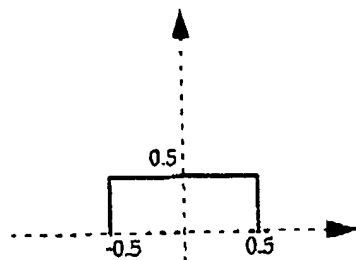


Figure 10A

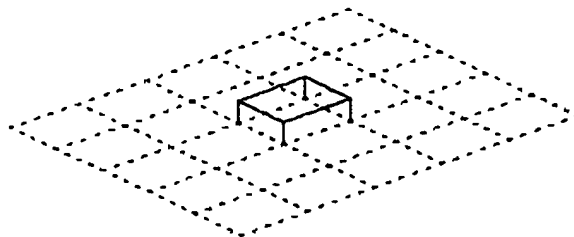
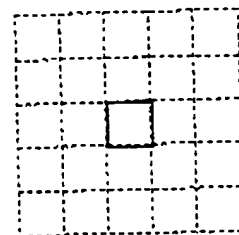


Figure 10B



filter base

Figure 10C

area to be considered

actual filter

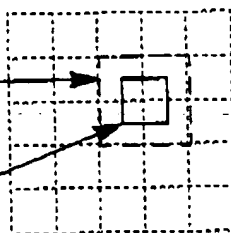
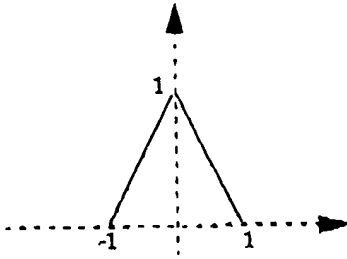
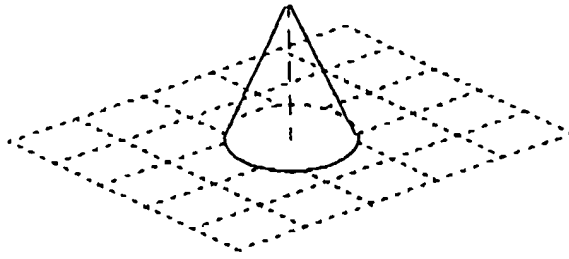


Figure 10D

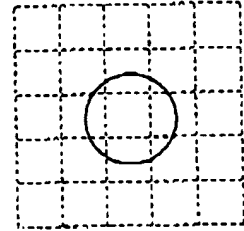
208220-92958001



11A



11B

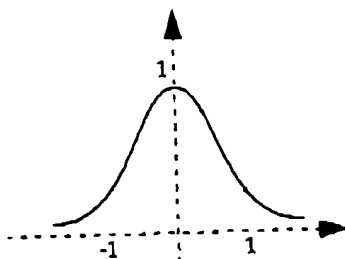


filter base

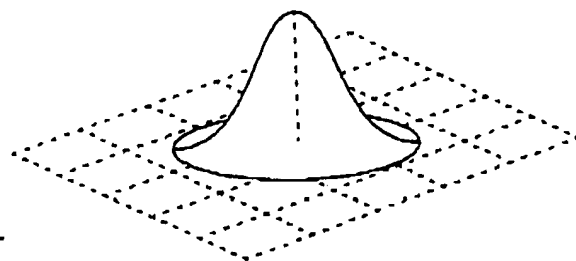
11C

10085636-022802

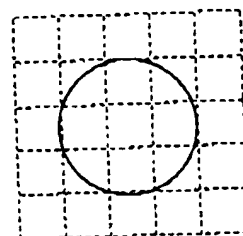
208220" 9E95800T



12A

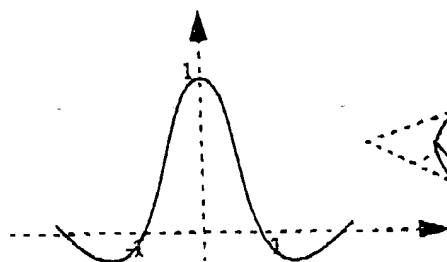


12B

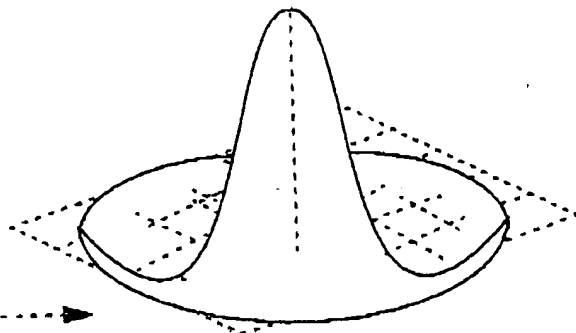


filter base

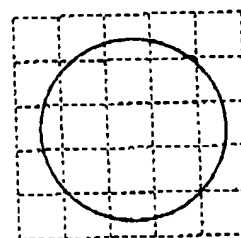
12C



13A



13B



filter base

13C

208220" 93558001

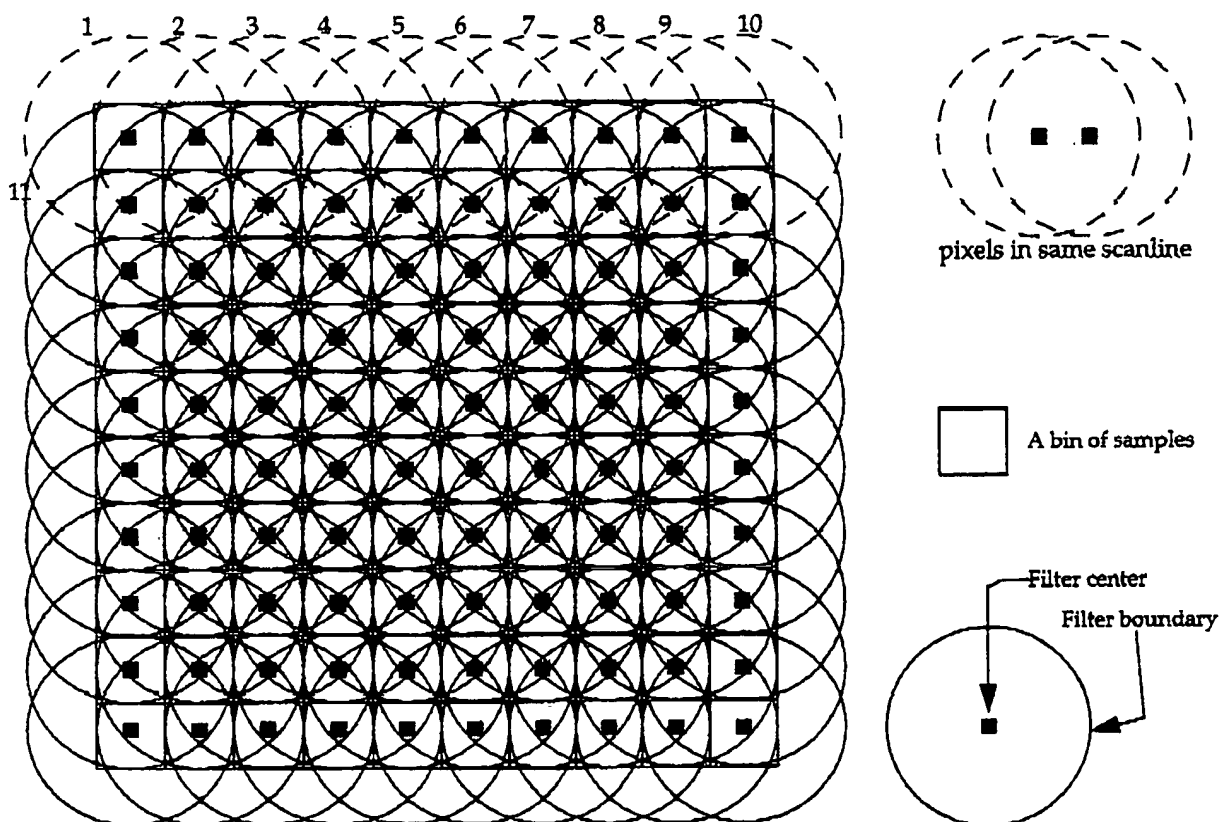
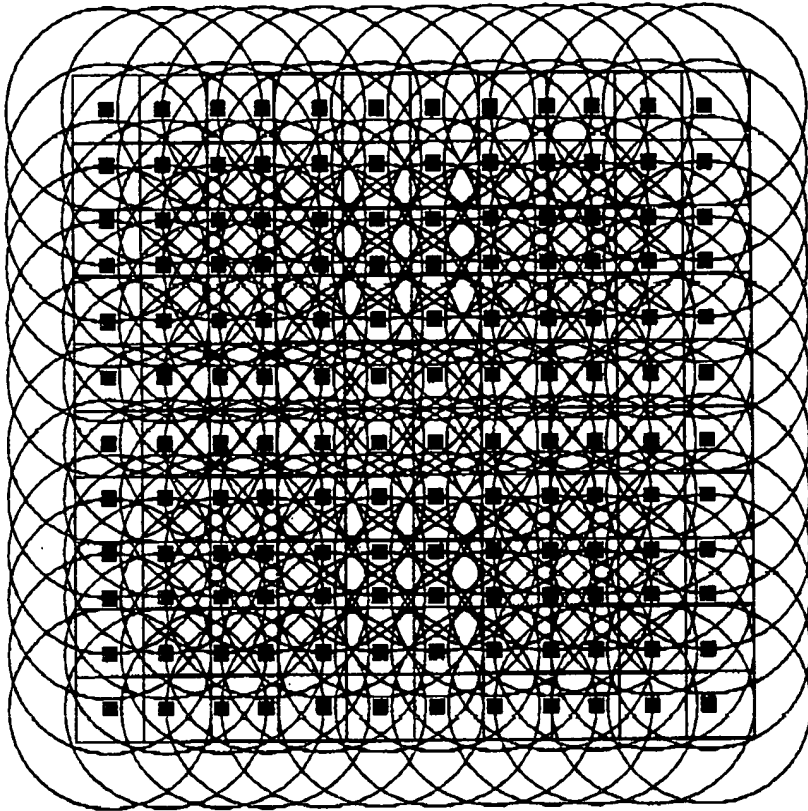



Figure 14

10085636.022802



 A bin of samples

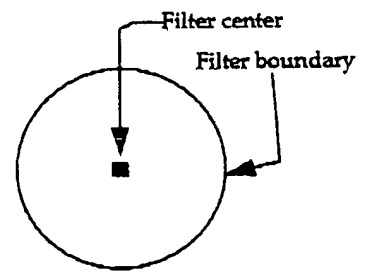
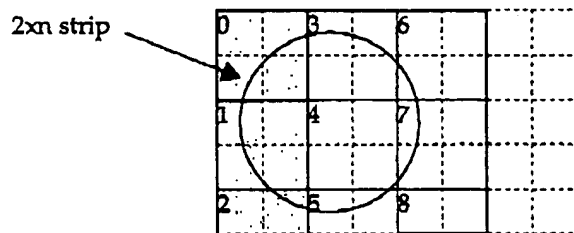
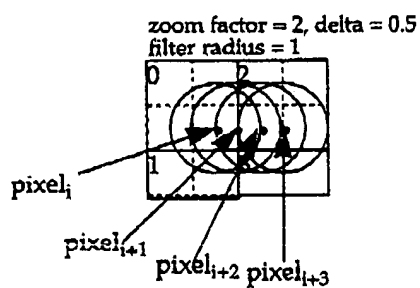


Fig 15

208220 9E958001

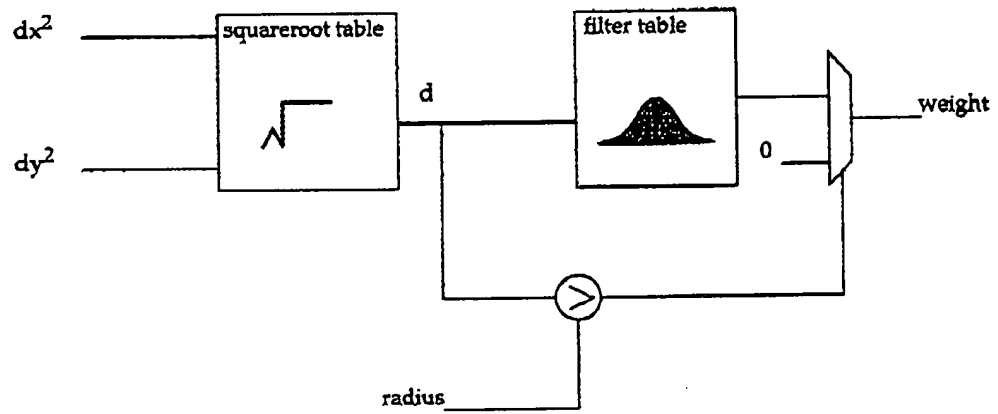


16



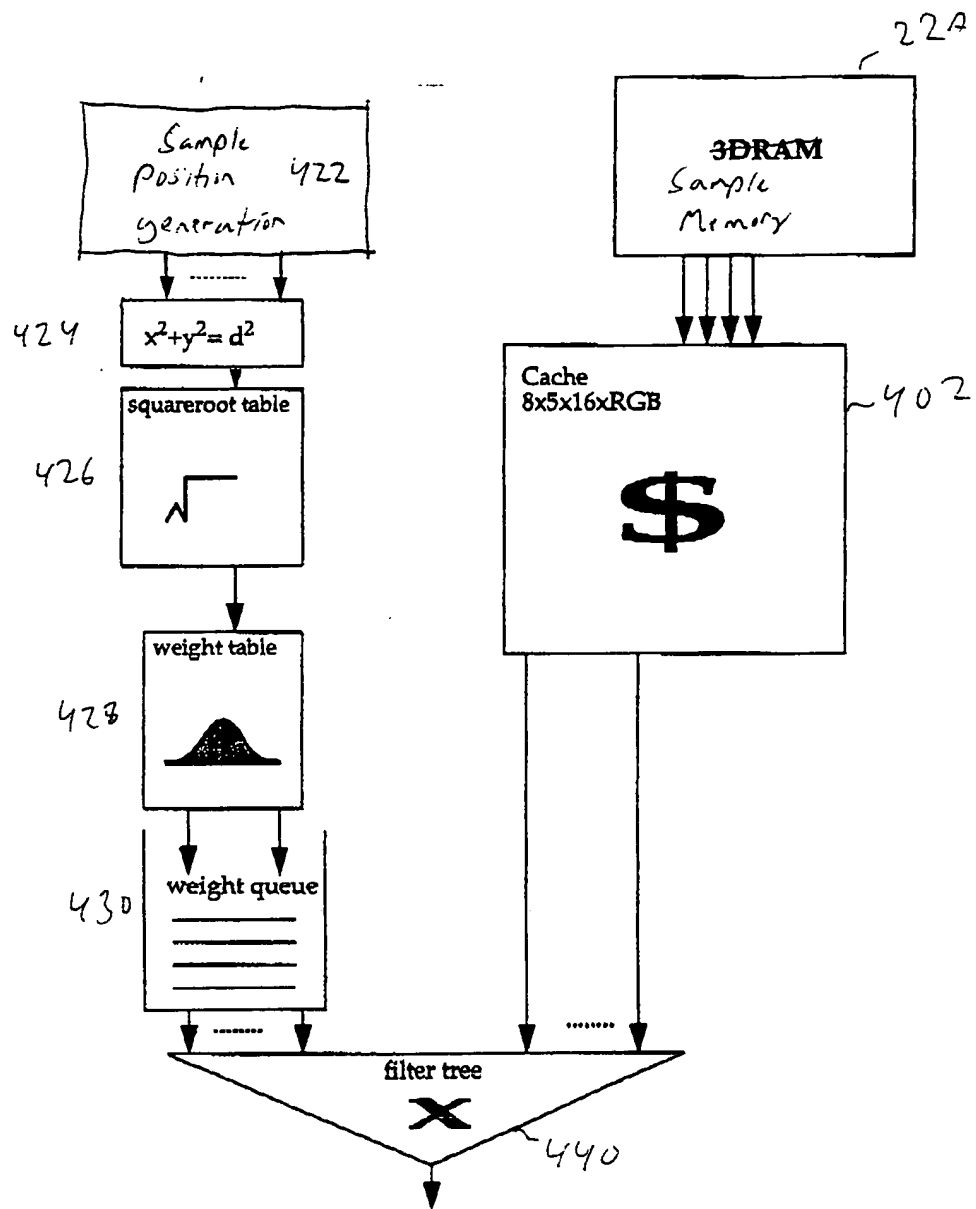
17

10085636.022802

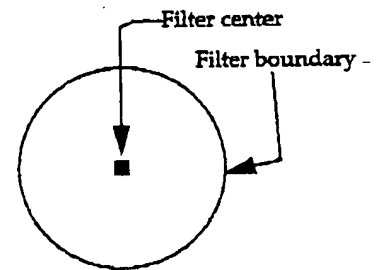
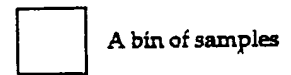
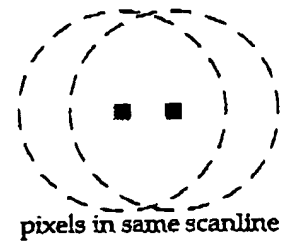
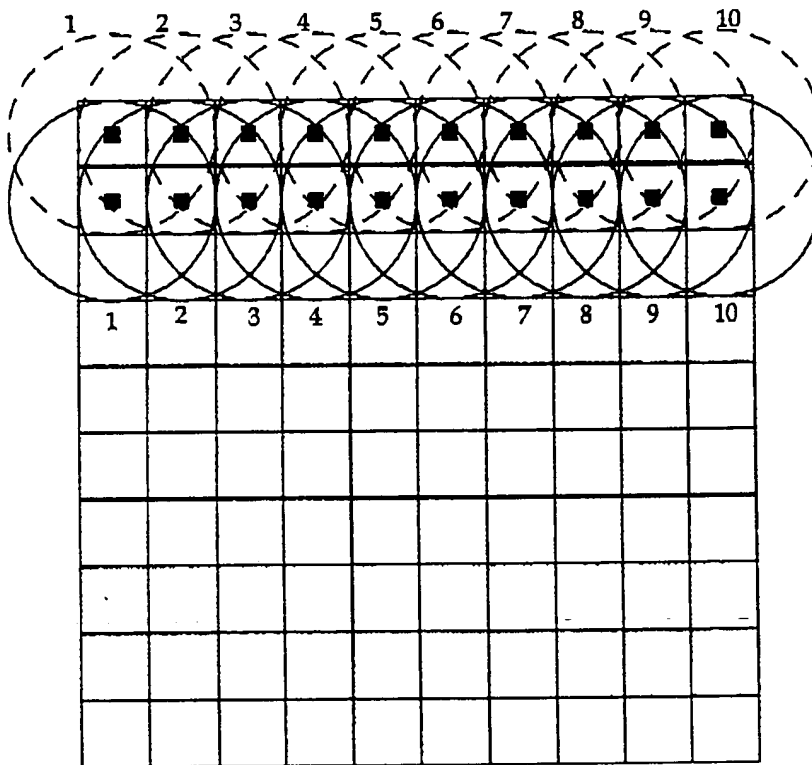


18

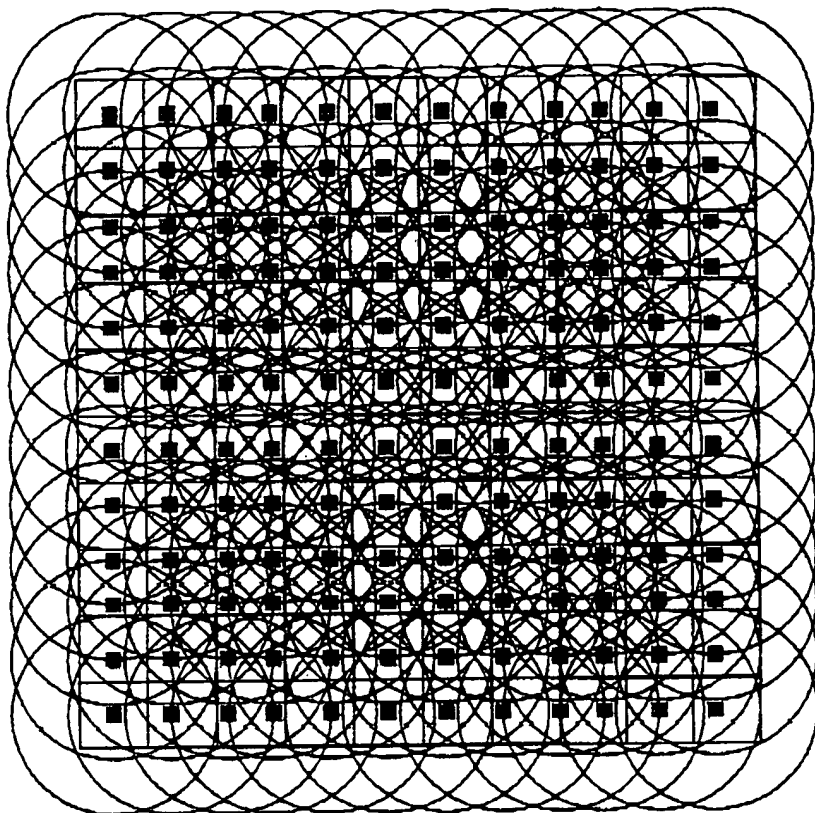
10085636.022802



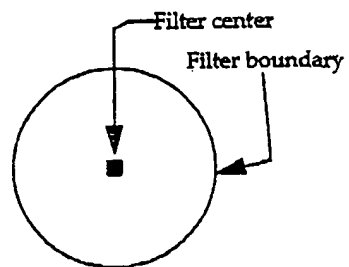
208220"9E95800T 10085636"022802



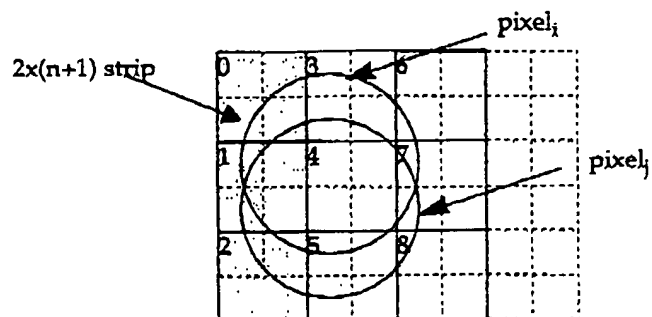
208220" 9E95800T



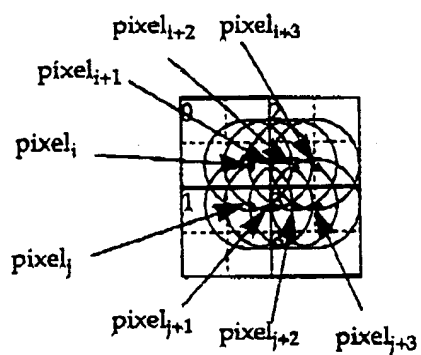
A bin of samples



208220-9E958001



22

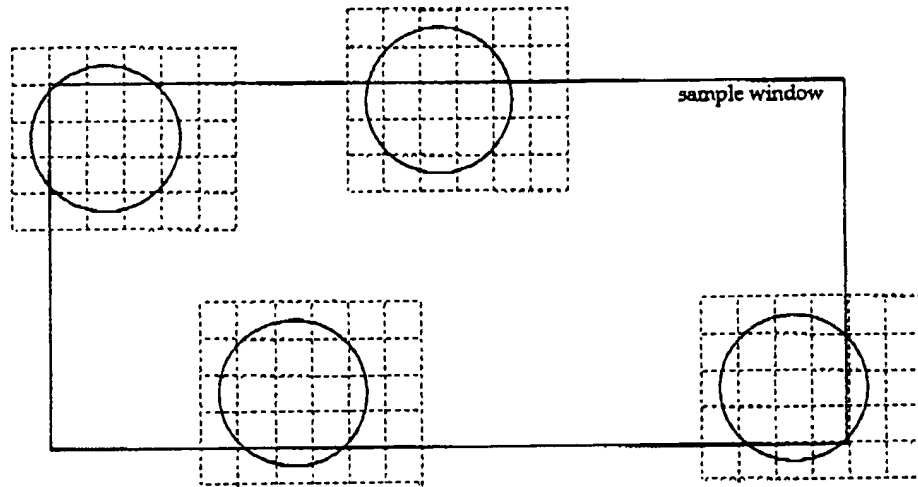


zoom factor = 2, delta = 0.5
filter radius = 1

23

208220" 9E95800T
10055636" 022802

24



208220-9E95800T

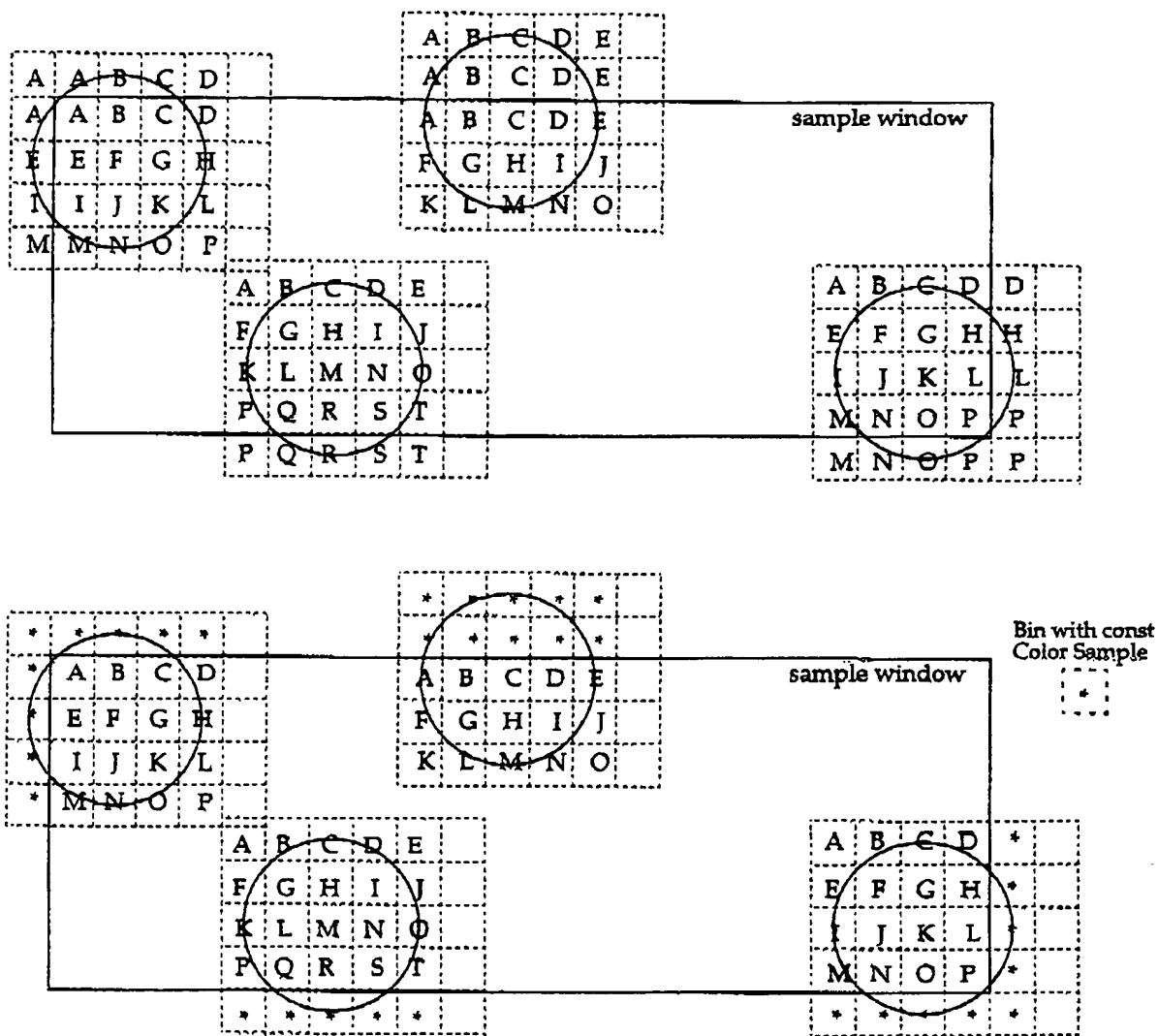
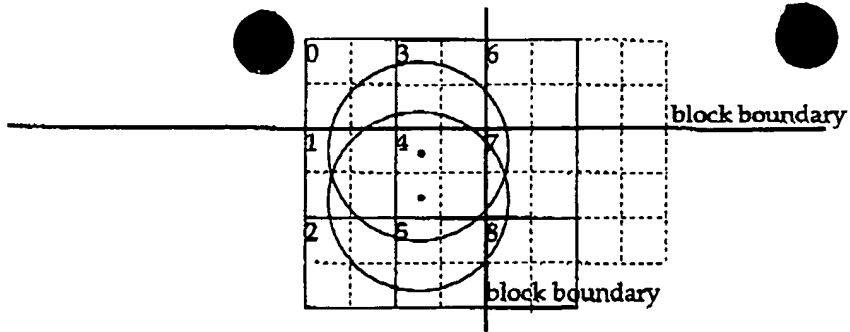
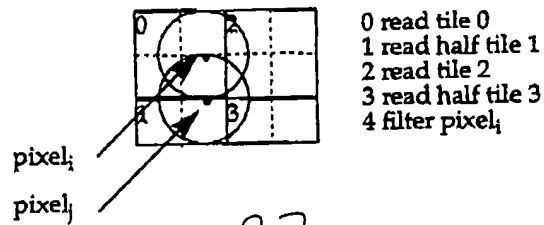


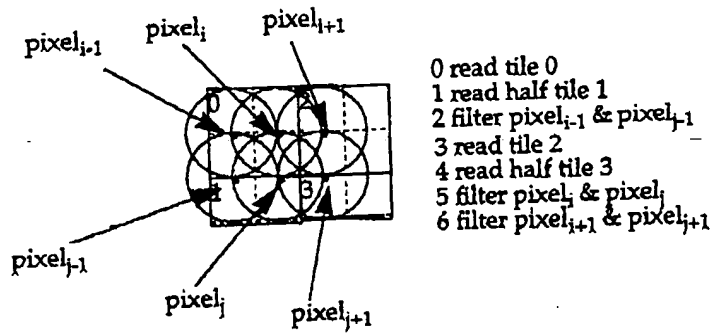
Figure 25



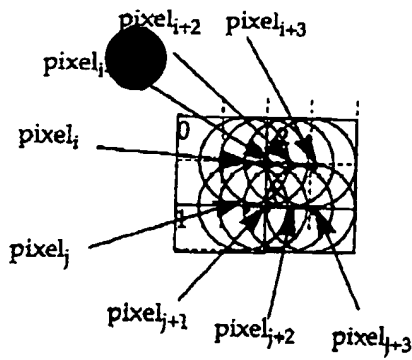
26



27



28



- 0 read tile 0
- 1 read half tile 1
- 2 read tile 2
- 3 read half tile 3
- 4 filter pixel_i & pixel_j
- 5 filter pixel_{i+1} & pixel_{j+1}
- 6 filter pixel_{i+2} & pixel_{j+2}
- 7 filter pixel_{i+3} & pixel_{j+3}

29

For Non-Buddy Mode:

binInlv [1:0]	sample[1:0]			
	0	1	2	3
0	a	b	c	d
1	c	d	a	b
2	d	c	b	a
3	b	a	d	c

where a, b, c, d identify different
interleave bus to 3DRAM

For Buddy Mode:

binInlv [1:0]	sample[2:0]							
	0	1	2	3	4	5	6	7
0	a	a	b	b	c	c	d	d
1	c	c	d	d	a	a	b	b
2	d	d	c	c	b	b	a	a
3	b	b	a	a	d	d	c	c

where a, b, c, d identify different
interleave bus to 3DRAM

— Figure 30

2003220-9295800F

208220" 9E95800F



A full tile from SW



SD16 Mapping:

binInlv [1:0]	sample															
	0	1	2	3	4	5	6	7	8	9	a	b	c	d	e	f
0	a	b	c	d	a	b	c	d	a	b	c	d	a	b	c	d
1	c	d	a	b	c	d	a	b	c	d	a	b	c	d	a	b
2	d	c	b	a	d	c	b	a	d	c	b	a	d	c	b	a
3	b	a	d	c	b	a	d	c	b	a	d	c	b	a	d	c



16 sample tiles from SG to Fragment Pipe



A full tile from SW



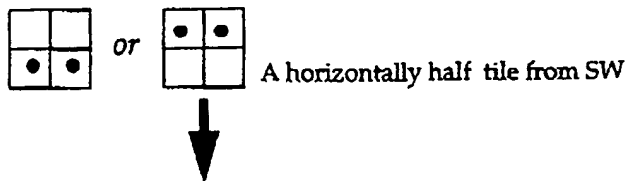
SD16B Mapping:

binInlv [1:0]	sample															
	0	1	2	3	4	5	6	7	8	9	a	b	c	d	e	f
0	a	a	b	b	c	d	d	a	a	b	b	c	c	d	d	
1	c	c	d	d	a	a	b	b	c	c	d	d	a	a	b	b
2	d	d	c	c	b	b	a	a	d	d	c	c	b	b	a	a
3	b	b	a	a	d	d	c	c	b	b	a	a	d	d	c	c



16 sample tiles from SG to Fragment Pipe

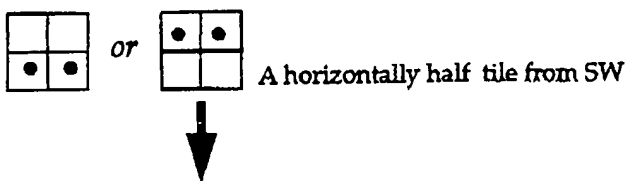
208220" 9E95800T



SD16 Mapping:

binInlv [1:0]	sample															
	0	1	2	3	4	5	6	7	8	9	a	b	c	d	e	f
0	a	b	c	d	a	b	c	d	a	b	c	d	a	b	c	d
1	c	d	a	b	c	d	a	b	c	d	a	b	c	d	a	b
2	d	c	b	a	d	c	b	a	d	c	b	a	d	c	b	a
3	b	a	d	c	b	a	d	c	b	a	d	c	b	a	d	c

8 sample tiles from SG to Fragment Pipe



SD16B Mapping:

binInlv [1:0]	sample															
	0	1	2	3	4	5	6	7	8	9	a	b	c	d	e	f
0	a	a	b	b	c	c	d	d	a	a	b	b	c	c	d	d
1	c	c	d	d	a	a	b	b	c	c	d	d	a	a	b	b
2	d	d	c	c	b	b	a	a	d	d	c	c	b	b	a	a
3	b	b	a	a	d	d	c	c	b	b	a	a	d	d	c	c

8 sample tiles from SG to Fragment Pipe

208220" 9E95800T

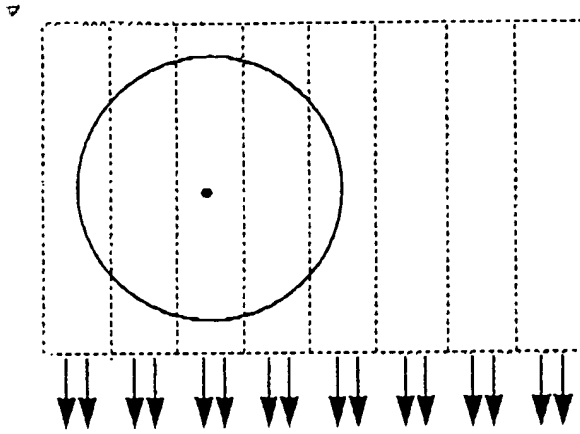
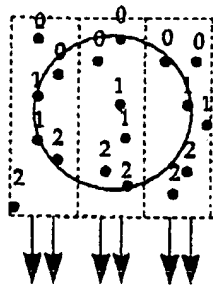


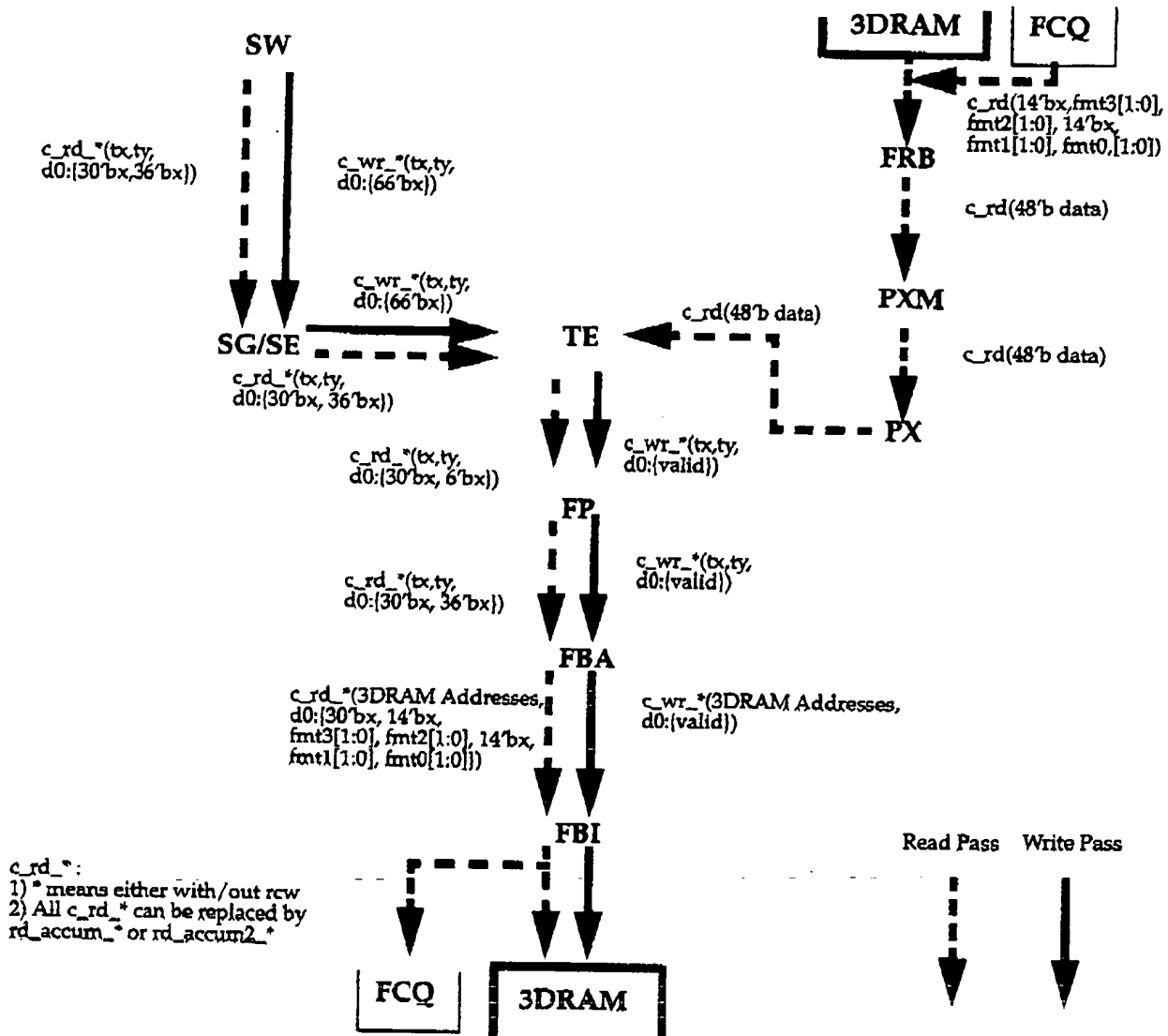
Fig 33



• sample

Fig 34

2008220" 9695800T



2008220-9295807

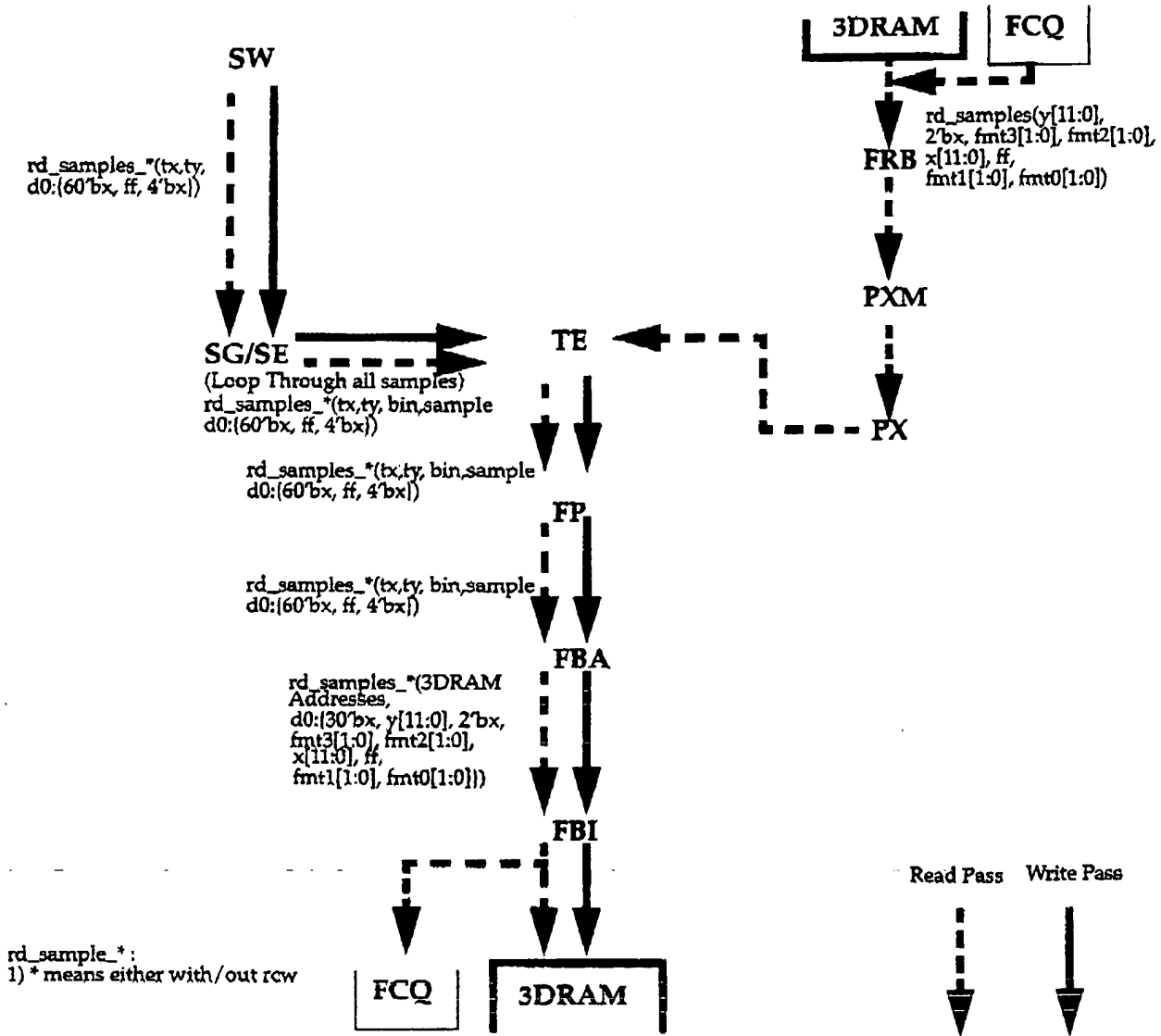


Fig 36

208220-9E95800T

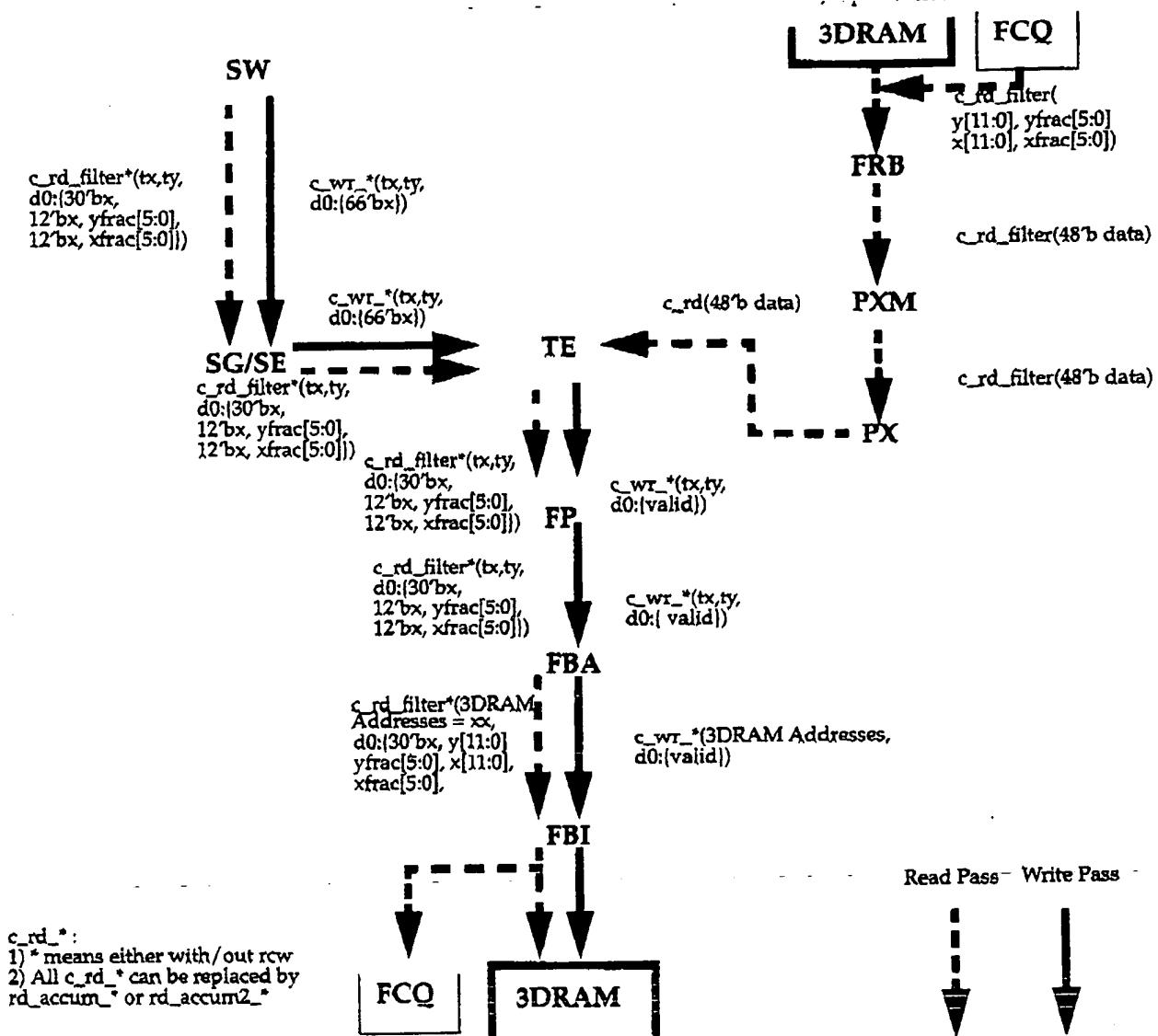


Fig 37